

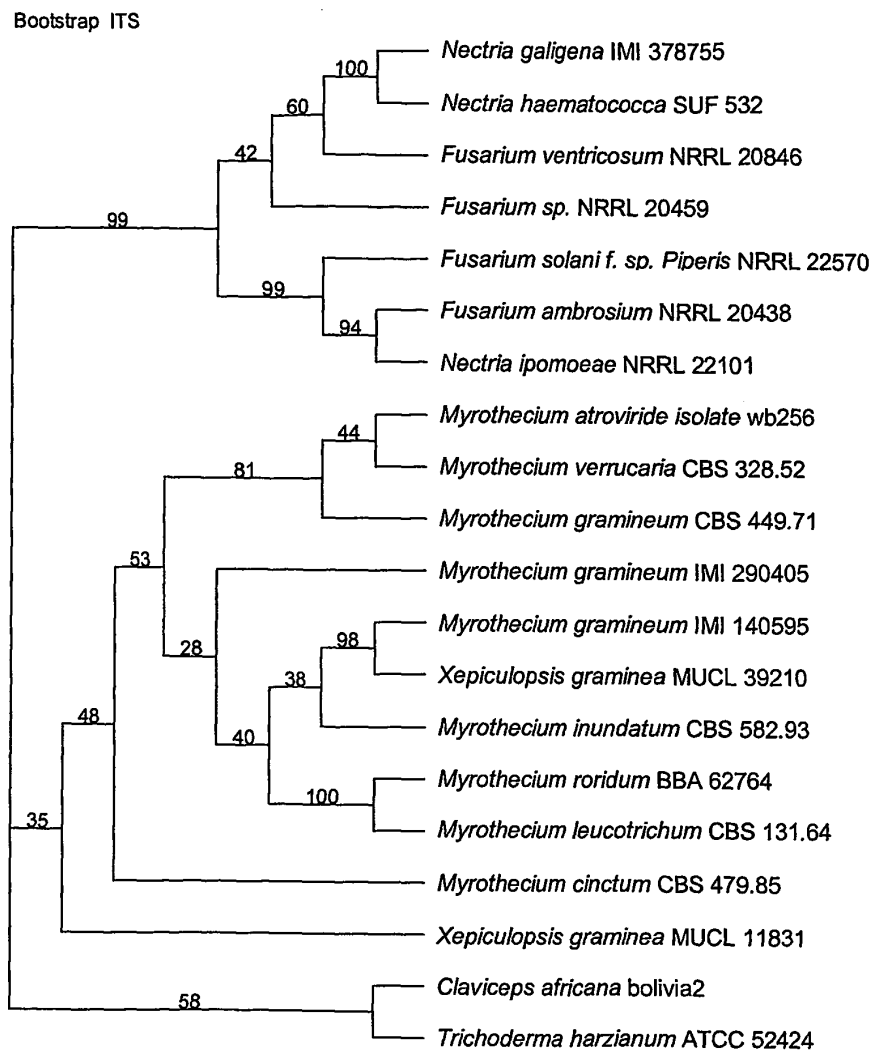
Fig. 1

FIG. 2 (SEQ ID NO 32)

5' GCC GTC GAG CAC TCC GAC GTC GAG ATC GTT GCC GTC AAC GAC CCC TTC ATT GAG  
-----  
A V E H S D V E I V A V N D P F I E  
  
63 72 81 90 99 108  
CCC AAG TAC GCT GTA AGT GCT GCT TCT GCT TCC CCT CAG TCG ACG AGC GAG CCC  
-----  
P K Y A (SEQ ID No 33)  
  
117 126 135 144 153 162  
AAA GCC GAG CTG CAG CTA GCG GAG CCA TGC GCT GCC TGC ATG CCA CTG CAT AAC  
-----  
  
171 180 189 198 207 216  
AGC AGC TAG AGG AGG GGT ACA CGG CCG CGC GCG CAG ACA CAC ATA CAA CAC CAC  
-----  
  
225 234 243 252 261 270  
CAC CAC CAA AAG GAG GGG CAG AAA AAA TCC AGC ATT GTC CGA TTT CAC CCC ACC  
-----  
  
279 288 297 306 315 324  
ATC TCA CGT CAA CCA ATT TGC CCC TCC ATG ATA TCA TGT GTC CGC GCC CAG CTC  
-----  
  
333 342 351 360 369 378  
AAC ACG TCC ACC TCC TCT GGC CAA TGG CGA GCG CAT TGA TGC TTT GAT GAG CGG  
-----  
  
387 396 405 414 423 432  
AAA CGA CGC TGA GGC CCT CAG CCT CGT CGT CGC TGC CGC TGC CGC CGC GCG CCG  
-----  
  
441 450 459 468 477 486  
CTC ACG CAT CGG CGG GCT CCC GTC GCT GGG CTT CAA TTG ACA TGA CAT GAT GCA  
-----  
  
495 504 513 522 531 540  
TGG CCA CCG TGC TAA CCA CCC CTG TGT CTG TCC GAT AGG CCT ACA TGC TCA AGT  
-----  
A Y M L K Y  
  
549 558 567 576 585 594  
ATG ACT CTA CCC ACG GTC TCT TCA AGG GTG AGG TCA CCG TCG ATG GCG ATG ACC  
-----  
D S T H G L F K G E V T V D G D D L

FIG. 2 (continuation)

```
      603      612      621      630      639      648
TGA CCG TCA ACG GCA AGA AGG TCC GCT TCT ACA CTG AGC GTG ACC CCG CCG CCA
-----
T   V   N   G   K   K   V   R   F   Y   T   E   R   D   P   A   A   I

      657      666      675      684      693      702
TCC CCT GGA AGG AGA CTG GTG CCG AGT ACA TTG TCG AGT CCA CCG GTG TCT TCA
-----
P   W   K   E   T   G   A   E   Y   I   V   E   S   T   G   V   F   T

      711      720      729      738      747      756
CCA CCA AGG ACA AGG CTG CTG CTC ACC TGA AGG GTG GTG CCA AGA AGG TCA TCA
-----
T   K   D   K   A   A   A   H   L   K   G   G   A   K   K   V   I   I

      765      774      783      792      801      810
TCT CTG CCC CCT CTG CCG ATG CCC CCA TGT ACG TTA TGG GTG TCA ACG AGG AGA
-----
S   A   P   S   A   D   A   P   M   Y   V   M   G   V   N   E   E   T

      819      828      837      846
CCT ACG ACG GCA GCG CCG ACG TCA TCT CCA ACG CTT CTT G 3'
-----
Y   D   G   S   A   D   V   I   S   N   A   S   (SEQ ID No 34)
```

Fig. 3

MUCL11831	GINGFGRIGRIVFRNAVEHPDIEIVAVNDPFIETKYA/AYMLKYDSTHGLFKGEVADGAD	
CBS449.71	GINGFGRIGRIVFRNAVEHDDVEIVAVNDPFIETPKYA/AYMLKYDSTHGLFKGEVSVGDAD	
IMI290405	GINGFGRIGRIVFRNAVEHSDVEIVAVNDPFIETTYA/AYMLKYDSTHGVFKGEVTVGDAD	
MUCL39210	-----AVEHSDVEIVAVNDPFIETPKYA/AYMLKYDSTHGLFKGEVTVGDGD	
	**** *:*****. ** *****:*****. ** *	
MUCL11831	LSVNGKKVRFYTERDPASIPWKETGAEYIVESTGVFTTTDKAKAHLAGGAKKVIISAPSA	
CBS449.71	LTVNGKKVRFYTERDPAAIPWKETGAEYIVESTGVFTTKDAAAHLKGGAKKVIISAPSA	
IMI290405	LTVNGKKVRFYTERDPAAIPWKETGADYIVESTGVFTTKDAAAHLKGGAKKVIISAPSA	
MUCL39210	LTVNGKKVRFYTERDPAAIPWKETGAEYIVESTGVFTTKDAAAHLKGGAKKVIISAPSA	
	*:*****:*****:*****. ** ** *****	
MUCL11831	DAPMYVMGVNEKTYDGSADVISNASCTTNCLAPLAKVLNDKYTIEGLMTTVHSYTATQK	
CBS449.71	DAPMYVMGVNEETDGSADVISNASCTTNCLAPLAKVIHDKFTIEGLMTTVHSTLPERR	
IMI290405	DAPMYVMGVNEETDGSADVISNASCTTNCLAPLAKVIHDKFTIEGLMTTVHSYTATQK	
MUCL39210	DAPMYVMGVNEETDGSADVISNAS-----	
	*****:*****	
MUCL11831	TVDGPSAKDWRGGRGAAQNIPTT	(SEQ ID No 35)
CBS449.71	PLTVPPPTGAVAVVLPRTSSPAA	(SEQ ID No 36)
IMI290405	TVDGPSAKDWRGGRGAAQNIIPST	(SEQ ID No 37)
MUCL39210	-----	(SEQ ID No 27)

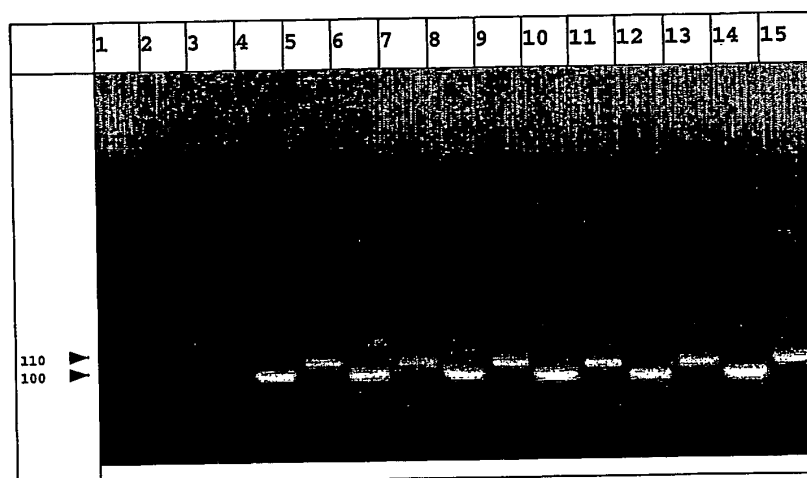
FIG. 4

Fig. 5 A

28s rDNA sequence of the strain MUCL39210 (SEQ ID NO 7)

CAGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAACAGCTCAAATTTGAAATCTGGCC  
CCCCGGCCCCGAGTTGTAATTTGCAGAGGATGCTTTTGGCGAGGTGCCTTCCGAGTTCCC  
TGGAACGGGACGCCATAGAGGGTGAGAGCCCCGTCTGGTCGGACACCGAGCCTCTGTAA  
AGCTCCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCAAATGGGAGGTATATGTCT  
TCTAAAGCTAAATATTGGCCAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGA  
AAAGCACTTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTAAAAGGGAAGCGTTTAT  
GACCAGACTTGGCCCGGTTGATCATCCAGCGTTCTCGCTGGTGCACTCTGCCGGTCCAG  
GCCAGCATCAGTTCGTGCGGGGGGATAAAGGTTTCGGGAATGTGGCTCCTCCGGGAGTG  
TTATAGCCCGTTGCGTAATACCCTGCGGTGGACTGAGGTCCGCGCTTCTGCAAGGATGC  
TGGCGTAATGGTCATCAACGACCCGTCTTGAAACACGGACCAAGGAGTCGTCTTCGTAT  
GCGAGTGTTGCGGTGTAAAACCCCTACGCGTAATGAAAGTGAACGCAGGTGAGAGCTTC  
GGCGCATCATCGACCGATCCTGATGTTCTCGGATGGATTTGAGTAAGAGCATACGGGGC  
CGGACCCGAAAGAAGGTGAACTATGCCTGTATAGGGTGAAGCCAGAGGAACTCTGGTG  
GAGGCTCGCAGCGGTTCTGACGTGCAAATCGATCGTCAAATATGGGCATGGGGGCGAAA  
GACTAATCGAACCTTCTAGTAGCTGGTTTCCGCCGAAGTTTCCCTCAGGATAGCAGTGT  
TGAACTCAGTTTTATGAGGTAAAGCGAATGATTAGGGACTCGGGGGCGCTATTTAGCCT  
TCATCCATTCTCAAACCTTTAAATATGTAAGAAGCCCTTGTTACTTAGTTGAACGTGGGC  
ATTCTGAATGTATCAACACTAGTGGGCCATTTTTGGTAAGCAGAACTGGC

Fig. 5 B

28s rDNA sequence of the strain MUCL11831 (SEQ ID NO 8)

CAGGGATTGCCTTAGTAACGGCGAGTGAAGCGGCAACAGCTCAAATTTGAAATCTGGAC  
CTAGTCCCGAGTTGTAATTTGCAGAGGATGATTTTGGCGCGGTGCCTTCCAAGTTCCCT  
GGGACGGGACGCCGGAGAGGGTGAGAGCCCCGTCAGGTTGGACACCAAGCCTATGTAAA  
TCTCCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCTAAATGGGAGGTATATGTCTT  
CTAAAGCTAAATACCGGCCAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAA  
AAGCACTTTGGAAAGAGAGTTAAACAGCACGTGAAATTGTTAAAAGGGAAGCGTTTACG  
ACCAGACTTGTGCCGTTGATCATCCAGCGTTCTCGCTGGTGCACCTCTGCCGGCCCAGG  
CCAGCATCAGTTCGCCGCGGGGATAAAGGCGTCGGGAATGTGGCTCCCCCGGGAGTGT  
TATAGCCCTTCGCGCAATACCCTGAGGCGGACTGAGGTTTCGCGCATTTCGCAAGGATGCT  
GGCGTAATGGTCGTCAACGACCCGTCCTTGAAACACGGACCAAGGAGTCGTCTTCGTATG  
CGAGTGTTCCGGTGTA AAAACCCCTACGCGTAATGAAAGTGAACGCAGGTGAGAGCTTCG  
GCGCATCATCGACCGATCCTGATGTTCTCGGATGGATTTGAGTAAGAGCATACGGGGCC  
GGACCCGAAAGAAGGTGAACTATGCCTGTATAGGGTGAAGCCAGAGGAACTCTGGTGG  
AGGCTCGCAGCGGTTCTGACGTGCAAATCGATCGTCAAATATGGGCATGGGGGCGAAAG  
ACTAATCGAACCTTCTAGTAGCTGGTTTCCGCCGAAGTTCCCTCAGGATAGCAGTGTT  
GAACTCAGTTTTATGAGGTAAAGCGAATGATTAGGGACTCGGGGGCGCTATTTAGCCTT  
CATCCATTCTCAAACTTTAAATATGTAAGAAGCCCTTGTTGCTTAATTGAACGTGGGCA  
TTCGAATGTATCAACACTAGTGGGCCATTTTTGGTAA

Fig. 5C

28s rDNA sequence of the strain CBS449.71 (SEQ ID NO 9)

CAGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAACAGCTCAAATTTGAAATCTGGCC  
CTAGGCCCCGAGTTGTAATTTGCAGAGGATGCTTTTGGCAAGGTGCCTTCCGAGTTCCCT  
GGAACGGGACGCCATAGAGGGTGAGAGCCCCGTCTGGTCGGACACCGAGCCTCTGTAAA  
GCTCCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCAAAATGGGAGGTATATGTCTT  
CTAAAGCTAAATACCGGCCAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAA  
AAGCACTTTGAAAAGAGAGTTAAATAGCACGTGAAATTGTTGAAAGGGAAGCGTTTATG  
ACCAGACTTGGCCCGTTGATCATCCAGCCTTCTGGCTGGTGCACCTCTGCCGGTCCAGG  
CCAGCATCAGTTCGTTCGCGGGGGATAAAGGTTTCGGGAATGTAGCTCCTCCGGGAGTGT  
TATAGCCCGTTGCGTAATACCCTGCGGTGGACTGAGGTCCGCGCTCTGCAAGGATGCTG  
GCGTAATGGTCATCAACGACCCGTCTTGAAACACGGACCAAGGAGTCGTCTTCGTATGC  
GAGTGTTTCGGGTGTAAAACCCCTACGCGTAATGAAAGTGAACGCAGGTGAGAGCTTCGG  
CGCATCATCGACCGATCCTGATGTTCTCGGATGGATTTGAGTAAGAGCATACGGGGCCG  
GACCCGAAAGAAGGTGAACTATGCCTGTATAGGGTGAAGCCAGAGGAACTCTGGTGGG  
GGCTCGCAGCGGTTCTGACGTGCAAATCGATCGTCAAATATGGGCATGGGGGCGAAAGA  
CTAATCGAACCTTCTAGTAGCTGGTTTCCGCCGAAGTTTCCCTCAGGATAGCAGTGTTG  
AACTCAGTTTTATGAGGTAAAGCGAATGATTAGGGACTCGGGGGCGCTATTTAGCCTTC  
ATCCATTCTCAAACCTTTAAATATGTAAGAAGCCCTTGTTGCTTAATTGAACGTGGGCAT  
TCGAATGTA



Fig. 5D

28s rDNA sequence of the strain IMI140595 (SEQ ID NO 10)

CAGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAACAGCTCAAATTTGAAATCTGGCC  
CTAGGCCCCGAGTTGTAATTTGCAGAGGATGCTTTTGGCGAGGTGCCTTCCGAGTTCCCT  
GGAACGGGACGCCATAGAGGGTGAGAGCCCCGTCTGGTCCGACACCGAGCCTCTGTAAA  
GCTCCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCAAAATGGGAGGTATATGTCCTT  
CTAAAGCTAAATACCGGCCAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAA  
AAGCACTTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGTTTATG  
ACCAGACTTGGCCCCGTTGATCATCCAGCGTTCTCGCTGGTGCACTCTGCCGGTCCAGG  
CCAGCATCAGTTCGCCGCGGGGGATAAAGGTTTCGGGAATGTGGCTCCTCCGGGAGTG  
TATAGCCCGTTGCGTAATACCCTGCGGTGGACTGAGGTCCGCGCTTCTGCAAGGATGCT  
GGCGTAATGGTCATCAACGACCCGTCTTGAAACACGGACCAAGGAGTCGTCTTCGTATG  
CGAGTGTTCCGGTGTAACACCCCTACGCGTAATGAAAGTGAACGCAGGTGAGAGCTTCG  
GCGCATCATCGACCGATCCTGATGTTCTCGGATGGATTTGAGTAAGAGCATACGGGGCC  
GGACCCGAAAGAAGGTGAACTATGCCGTGTATAGGGTGAAGCCAGAGGAACTCTGGTGG  
AGGCTCGCAGCGGTTCTGACGTGCAAATCGATCGTCAAATATGGGCATGGGGGCGAAAG  
ACTAATCGAACCTTCTAGTAGCTGGTTTCCGCCGAAGTTTCCCTCAGGATAGCAGTGTT  
GAACTCAGTTTTATGAGGTAAAGCGAATGATTAGGGACTCGGGGGCGCTATTTAGCCTT  
CATCCATTCTCAAACCTTTAAATATGTAAGAAGCCCTTGTTACTTAGTTGAACGTGGGCA  
TTCGAATGTATCAACACTAGTGGGCCATTTTTGGT

Fig. 5E

28s rDNA sequence of the strain IMI290405 (SEQ ID NO 11)

CAGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAACAGCTCAAATTTGAAATCTGGCC  
CCCCGGCCCCGAGTTGTAATTTGCAGAGGATGCTTTTGGCAAGGTGCCTTCCGAGTTCCC  
TGGAACGGGACGCCATAGAGGGTGAGAGCCCCGTCTGGTCGGACACCGAGCCTCTGTAA  
AGCTCCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCAAAATGGGAGGTATATGTCT  
TCTAAAGCTAAATACCGGCCAGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGA  
AAAGCACTTTGAAAAGAGAGTTAAATAGCACGTGAAATTGTTGAAAGGGAAGCGTTTAT  
GACCAGACTTGGCCCGGTTGATCATCCAGCGTTCTCGCTGGTGCACTCTGCCGGTCCAG  
GCCAGCATCAGTTCGTGCGGGGGATAAAGGCTTCGGGAATGTAGCTCTCTTCGGGGAG  
TGTTATAGCCCGTTGTGTAATACCCTGCGGTGGACTGAGGTCCGCGCTCTGCAAGGATG  
CTGGCGTAATGGTCATCACGACCGTCTTGAAACACGGACCAAGGAGTCGTCTTCGTATG  
CGAGTGTTTCGGGTGTAAAACCCCTACGCGTAATGAAAGTGAACGCAGGTGAGAGCTTCG  
GCGCATCATCGACCGATCCTGATGTTCTCGGATGGATTTGAGTAAGAGCATAACGGGGCC  
GGACCCGAAAGAAGGTGAACTATGCCTGTATAGGGTGAAGCCAGAGGAAACTCTGGTGG  
AGGCTCGCAGCGGTTCTGACGTGCAAAATCGATCGTCAAATATGGGCATGGGGGCGAAAG  
ACTAATCGAACCTTCTAGTAGCTGGTTTCCGCCGAAGTTTCCCTCAGGATAGCAGTGTT  
GAACTCAGTTTTATGAGGTAAAGCGAATGATTAGGGACTCGGGGGCGCTATTTAGCCTT  
CATCCATTCTCAAACCTTTAAATATGTAAGAAGCCCTTGTTGCTTAATTGAACGTGGGCA  
TTCGAATGTATCAACACTAGTGGGCCATTTTTGGTAAGCAG

Fig. 6A

ITS sequence of the strain MUCL39210 (SEQ ID NO 12)

GCGGGACCGCCCCGGCGCCCTCGCGGCCCCGACCCAGGCGCCCGCCGGAGACCCCAAAC  
TCTATGTTTTACTGTACATCTCCTCTGAGTGACACATAAAACAATAAAATAAAACTTTTA  
ACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATG  
TGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGTAT  
TCTGGCGGGCATGCCTGTTTCGAGCGTCATTTCAACCCTCAGGCCCCCAGTGCTTGGCGT  
TGGGGATCGGCACCAGGGCGTCCGCGCAAGCGGTCTCCCCGCCGGCCCCGAAATCTAGT  
GGCGGTCTCGCTGTAGTCCTCCTCTGCGTAGTAGCAACCTCGCAGCTGGAACTCGGC  
GGTGGCCCTGCCGTTAAACACCCCACTTCTGA

Fig. 6B

ITS sequence of the strain MUCL11831 (SEQ ID NO 13)

GCGGGCTCAGCCCCCGCGCCCTCGCCGGCGCCGGGAAACAGGCGCCCGCCGGAGACCCA  
AACTCAATGTTTTTTCATGCAGTATTATCTGAGTGGCAAACGCAAAAAATAAATCAAAAC  
TTTTAACAACGGATCTCTTGGCTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAG  
TAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCG  
AGTATTCTCGCGGGCATGCCTGTCCGAGCGTCATTTCAACCCTCAGGGCCCGCTGCTT  
GCAGGCGCGGCGCTGGTGTGTTGGGGATCGGCCCTAAACCGCCGTCCCCCAAATTCAGTGG  
CGGTCTCGCTGCAGCCTCCCCTGCGTAGTAGCAACACTCGCATGCGGAGCGCGGCGCGG  
CCACGCCGTAAACCCCCGACTTTCTGAACGTTGACCTCGGATCAG

Fig. 6C

ITS sequence of the strain CBS449.71 (SEQ ID NO 14)

GCGGGACCGCCCCGGCGCCTTCGGGCCCCGGAACCAGGCGCCCGCGGAGGCCCCAAACT  
CTTATGTCTTTAGTGGTTTTCTCCTCTGAGTGACACATAAACAAATAAAATAAACTTT  
CAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAA  
TGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGT  
ATTCTGGCGGGCATGCCTGTTCTGAGCGTCATTTCAACCCTCAGGCCCCCAGTGCCTGGT  
GTTGGGGATCGGCCAGCCTTCTCGCAAGGCCGCCGGCCCCGAAATCTAGTGGCGGTCT  
CGCTGTAGTCCTCCTCTGCGTAGTAGCACAACTCGCAGTTGGAACGCGGCGGTGGCCA  
TGCCGTTAAA

Fig. 6D

ITS sequence of the strain IMI140595 (SEQ ID NO 15)

GCGGGACCGCCCCGGCGCCCTCGCGGCCCGGACCCAGGCGCCCGCGGAGACCCCAAAC  
TCTATGTTTTACTGTACATCTCCTCTGAGTGACACATAAACAAATAAAATAAACTTTCA  
ACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATG  
TGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGTAT  
TCTGGCGGGCATGCCTGTTCTGAGCGTCATTTCAACCCTCAGGCCCCCAGTGCCTGGCGT  
TGGGGATCGGCTCAGGGGCGACCGCGCAAGCGGCCGCTTCCCGCCGGCCCCGAAATCTA  
GTGGCGGTCTCGCTGTAGTCCTCCTCTGCGTAGTAGCACAACTCGCAGCTGGAACGCG  
GCGGTGGCCCTGCCGTAAAACACCCCACTTCT

Fig. 6E

ITS sequence of the strain IMI290405 (SEQ ID NO 16)

GCGGGACCGCCCCGGCGCCCTCGGGCCCGGAACCAGGCGCCCGCCGGAGGCCCCAAACC  
CTCATGTCTTTAGTGGTTTTCTCCTCTGAGTGACACATAAACAAATAAATAAAAACTTT  
CAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAA  
TGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGT  
ATTCTGGCGGGCATGCCTGTTTCGAGCGTCATTTCAACCCTCAGGCCCCCAGTGCCTGGC  
GTTGGGGATCGGCAGCAGGGCGTCAAGCCCGCCGGCCCCGAAATCTAGTGGCGGTCTCG  
CTGTAGTCCTCCTCTGCGTAGTAGCACAACTCGCAGTTGGAACGCGGCGGTGGCCATG  
CCGTTAAACACCCCACTTCTG

Fig. 7 A

DNA sequence of the *gpd* gene of the strain MUCL11831

GTGGTGGTGGGGATGATGTTCTGGGCAGCGCCACGGCCACCGCGCCAGTCCTTGGCGGA  
GGGACCGTCGACGGTCTTCTGGGTGGCAGTGTAGGAGTGGACGGTGGTCATGAGACCCT  
CAATGATGGTGTACTTGTCTGTTGAGGACCTTGGCGAGGGGAGCCAGGCAGTTGGTGGTG  
CACGAGGCGTTGGAGATGACATCGGCGCTGCCGTCGTAGGTCTTCTCGTTGACGCCCAT  
CACGTACATGGGGGCATCGGCGGAGGGGGCGGAGATGATGACCTTCTTGGCACCGCCAG  
CAAGGTGAGCCTTGGCCTTGTCTGGTGGTGAAGACACCGGTGGACTCGACAATGTAC  
TCGGCGCCGGTCTCCTTCCAGGGGATGGAGGCGGGGTCACGCTCGGTGTAGAAGCGGAC  
CTTCTTGCCGTTGACGCTCAGGTCAGCGCCATCGGCCTCGACCTCACCTTGAAGAGAC  
CGTGGGTGGAGTCATACTTGAGCATGTAGGCCTAGATGGTGGTCAGCTAAAGCGCTCAT  
TTCAAGACAAAGAAAGCAGATGTCAAGGTTGGCGGGAAAAGACGATGGAGGGGCACGGG  
TTTGGACATGGTTGCAGGTAGGTGGGGTGCAACGGCCCATGTCATTGCAAGCATGCCAT  
GTCGGGTTTTGCCCCCTCGGATTGGATTTCTTTTTTCGCGCCGCATCATGTAAAGTGGGG  
GGAGGGGCAGCACTCACGGCGTACTTGGTCTCGATGAAGGGGTCGTTGACGGCGACAAT  
CTCAATGTCGGGGTGCTCGACGGCGTTGCGGAAGACGATACGACCGATGCGGGCCGAACC  
CATTGATCCC

(SEQ ID NO 23)

Fig. 7 B

DNA sequence of the *gpd* gene of the strain CBS449.71

GTGCAGCTGGGGATGATGTTCTGGGCAGCACCACGGCCACCGCGCCAGTCCTTGGCGGA  
GGGACCGTCAACGGTCTTCTGGGTGGCAGTGTAGAGTGGACGGTGGTCATGAGACCCTC  
AATGATGGTGAAC TTGTCGTGGATGACCTTGGCGAGGGGAGCCAGGCAGTTGGTGGTGC  
AAGAAGCGTTGGAGATGACGTCGGCGCTGCCGTCGTAGGTCTCCTCGTTGACACCCATA  
ACGTACATGGGGGCATCGGCGGAGGGAGCAGAGATGATGACCTTCTTGGCACCACCCTT  
CAAGTGAGCAGCAGCCTTGTCTTGGTGGTGAAGACACCAGTGGACTCGACGATGTACT  
CGGCGCCAGTCTCCTTCCAGGGGATGGCAGCGGGGTGCGGCTCAGTGTAGAAGCGGACC  
TTCTTGCCGTTGACAGTGAGGTGGCACCATCGACGGAGACCTCACCCCTGAAGAGACC  
GTGGGTAGAGTCATACTTGAGCATGTAGGCCTAGTGAACAGGGGTGGTTAGCGGAATGG  
CCGGCAGAGAGAGAGTAATTGCGGCATGACGAGGCGTGGGAGGGAGGAGCAGTCCCTCG  
CCATGACGATAGCATTGGCTATTGATTCATTCGCCGCCTTGACAGAGGGCTCGTTGAAC  
TGCACCAACGCATGATATCATCATGGAGGGGCAAATATTGACGTGTAATGGTGGGGTGA  
ATGGCAGAGTGGTTGCGTTTTTTCTGCCCCCTCACTTGGAGATGGCCGTGTCGCGTCTGC  
CCCTCGTCTCCCTGCAAGTGATGGTGGACTGCAGCTCGCTTGCCCTAGTTGTTGGCTGA  
AGGGAAACAGCACTTACAGCGTACTTGGGCTCAATGAAGGGATCGTTGACGGCAACGAT  
CTCGACGTCGTCGTGCTCGACGGCGTTGCGGAAGACGATACGACCAATGCGGCCGAACC  
CATTGATCCC

(SEQ ID NO 24)

Fig. 7C

DNA sequence of the *gpd* gene of the strain IMI290405

GTGGTGGAGGGGATGATGTTCTGGGCAGCACACGGCCACCACGCCAGTCCTTGGCGGA  
GGGACCATCGACGGTCTTCTGGGTGGCAGTGTAGGAGTGGACAGTGGTCATGAGACCCT  
CAATGATGGTGAACTTGTCGTGAATGACCTTGGCGAGAGGAGCCAGGCAGTTGGTGGTG  
CAGGAGGCGTTGGAGATGACGTCGGCGCTGCCGTCTAGGTCTCCTCGTTGACACCCAT  
AACGTACATGGGAGCATCAGCAGAGGGGGCAGAGATGATGACCTTCTTGGCACCACCCT  
TCAAGTGAGCAGCGGCCTTGTCTTGGTGGTGAAGACACCGGTGGACTCGACGATGTAG  
TCGGCGCCAGTCTCCTTCCAAGGGATGGCAGCGGGTCACGCTCAGTGTAGAAGCGGAC  
CTTCTTGCCGTTGACGGTCAGGTCAGCGCCATCGACGGTGACCTCACCTTGAAGACGC  
CGTGGGTGGAGTCATACTTGAGCATGTAGGCCTATGCGTGGATGGTGGTGGGAAGCATG  
AGTGAATTGGAGGGATTGCGTGAGGGTGATGAAGCATCATTGTGGTGTGTCAATGGGGC  
TGTTTCTGCTGCTGCTGCTGGCGGCGGTGTTGGTGGTGGTGACAAAAGAAATTTGTTGAGC  
GGGAAAGGGATAGACGGCGGCGCATGATATCATGGAGGGGCAAATATTGACGCGCTGAT  
GATAGTGGGGTGATTTTGGAGGCACCTGGTTTTGTCTTTGGTTGCATTTTTTCTGCCC  
CTCACTCGGTCCGTCCGTGTCTGCGGCGCGCTCTGCCCCTCCTCTGTCTGCACAGAGT  
GCATGCTGGGCTGCAGCCAGCTCCGTTGCCCCTCGCTCGCTCGCTCGCTGCGTGCCTTGTC  
CCTTTGGAGCTGAGGGGAAAGAGGTGGGATCGAGATCACAATCAAAGGTTGTACTCAC  
AGCGTAGGTGGGCTCAATGAAGGGATCGTTGACGGCAACGATCTCGACGTCGGAGTGCT  
CGACGGCGTTGCGGAAGACGATACGACCAATGCGGCCGAACCCATTGATACC

(SEQ ID NO 25)



Fig. 8

Sequence of the *gpd* gene of *Myrothecium gramineum*  
(*Xepiculopsis graminea*) MUCL39210 (SEQ ID NO 26)

GCCGTCGAGCACTCCGACGTCGAGATCGTTGCCGTCAACGACCCCTTCATTGAGCCCCAA  
GTACGCTGTAAGTGCTGCTTCTGCTTCCCCCTCAGTCGACGAGCGAGCCCCAAAGCCGAGC  
TGCAGCTAGCGGAGCCATGCGCTGCCTGCATGCCACTGCATAACAGCAGCTAGAGGAGG  
GGTACACGGCCGCGCGCGCAGACACACATAACAACACCACCACCACCAAAAGGAGGGGCA  
GAAAAAATCCAGCATTGTCCGATTTACCCCAACCATCTCACGTCAACCAATTTGCCCTT  
CCATGATATCATGTGTCCGCGCCCAGCTCAACACGTCCACCTCCTCTGGCCAATGGCGA  
GCGCATTGATGCTTTGATGAGCGGAAACGACGCTGAGGCCCTCAGCCTCGTCGTCGCTG  
CCGCTGCCGCCGCGCGCCGCTCACGCATCGGCGGGCTCCCGTCGCTGGGCTTCAATTGA  
CATGACATGATGCATGGCCACCGTGCTAACCACCCCTGTGTCTGTCCGATAGGCCTACA  
TGCTCAAGTATGACTCTACCCACGGTCTCTTCAAGGGTGAGGTCACCGTCGATGGCGAT  
GACCTGACCGTCAACGGCAAGAAGGTCCGCTTCTACACTGAGCGTGACCCCGCCGCCAT  
CCCCTGGAAGGAGACTGGTGCCGAGTACATTGTGCGAGTCCACCGGTGTCTTACCACCA  
AGGACAAGGCTGCTGCTCACCTGAAGGGTGGTGCCAAGAAGGTCATCATCTTGCCCCC  
TCTGCCGATGCCCCCATGTACGTTATGGGTGTCAACGAGGAGACCTACGACGGCAGCGC  
CGACGTCATCTCCAACGCTTCTTG

Fig. 9

Sequence of the glyceraldehyde 3-P dehydrogenase of  
*Myrothecium gramineum* (*Xepiculopsis graminea*) MUCL39210

AVEHSDVEIVAVNDPFIEPKYAAAYMLKYDSTHGLFKGEVTVDGDDLTVNGKKVRFYTER  
DPAAIPWKETGAEYIVESTGVFTTKDKAAHLKGGAKKVIISAPSADAPMYVMGVNEET  
YDGSADVISNAS  
(SEQ ID NO 27)